

IN THE SPECIFICATION

Please replace the original Abstract with the following replacement Abstract:

A device for generating X-rays having a source for emitting electrons accommodated in a vacuum space, a liquid metal for emitting X-rays as a result of the incidence of electrons, and a pump for causing a flow of the liquid metal through a constriction where the electrons emitted by the source impinge upon the liquid metal, the constriction having a cross-sectional area which, seen in a flow direction, increases so that during operation in the flow direction, a decrease of a flow velocity takes place such that a decrease of a pressure of the liquid metal in the constriction, caused by viscous flow losses, substantially corresponds with an increase of the pressure caused by the decrease of the velocity so that a uniform and relatively low mechanical load is exerted on a window separating the constriction from the vacuum space during operation.